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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/670,264	09/26/2003	Beom-jun Kim	1293.1899	4937	
21171	7590 07/18/2005	EXAMINER		INER	
STAAS & H SUITE 700	IALSEY LLP		GOODROW, JOHN L		
	ORK AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005			1756		
		DATE MAILED: 07/18/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applica	ition No.	Applicant(s)				
Office Action Summary		10/670,	,264	KIM ET AL.				
		Examin	er	Art Unit				
			Goodrow	1756				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) fil	ed on .						
		· · · ———						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4) ☐ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers							
9)[The specification is objected to by the	ne Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	* *		_					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>9/03</u> .		Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO- 	-152)			
S. Patent and T	ademark Office							

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 9/03 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statement.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al. Watanabe (012) teaches a naphthoquinone derivative and an electrophotosensitive photoreceptor. The naphthoquinone derivative has an improved electron acceptive properties due to an action of a carbonyl group substituted on a naphthoquinone ring and is also superior in solubility in solvent and a compatibility with binding resin due to an action of an alkyl or aryl group substituted on the naphthoquinone ring . note Col.3 lines 5-10. The compounds are in Col.4 & 5. It is the lack of the alkylene , when n=0 that the compounds are matched . Applicants' have not shown any unexpected results in a compound where the alkylene is 2-20 carbon atoms.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itami et al in view of Watanabe et al. Itami et al teaches the photoreceptor as a photosensitive drum note Figure 1 and Col. 35 line 64. The cartridge is found employing the photoreceptor note Col. 4 lines 25-30. The apparatus can have a common electrophotographic techniques note Col. 37 lines 35-45. The photoreceptor can have a naphthoquinone in a charge transfer structure note Col. 19 lines 35-40. Itami et al fails to teach the specific naphthoquinone. Watanabe et al teaches the specific naphthoquinone in a charge transfer structure. It would be obvious to one of ordinary

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skill in the art at the time of applicants' invention with a reasonable expectation of success to use naphthoquinone of Watanabe and the superior charge transport and solubility as the naphthoquinone in the drum, cartridge and apparatus of Itami in improving the photoresponsive properties of the photoreceptor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Goodrow whose telephone number is 571-272-1384. The examiner can normally be reached on Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F. Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John L Goodrow / Primary Examiner Art Unit 1756
